

DESCRIPTION OF WORK:

KEMRON

- 1) Update existing site specific HASP for the performance and advancement of soil borings in the area of Basement of Building #7 using a Geoprobe® Model 54LT (or equivalent) direct push technology (DPT) machine to collect soil/sludge samples;
- 2) DPT cores and samples (10 to 20) obtained by subcontractor. Samples for analyses listed above will be hand-delivered to Accutest Dayton, NJ lab (COC lab for Accutest , MA forensic lab). Accutest NJ will ship to Accutest MA lab who will perform sample forensic analyses.
- 3) KEMRON is to maintain a site log, daily sign in-sheet, and have all Site personnel and subcontractors sign the H&S plan.
- 4) KEMRON is to perform photo-documentation of all field activities;
- 5) KEMRON is to provide all equipment, materials and labor required for the safe advancement of at least 6 soil borings to be completed to refusal or up to 15 feet in depth, collection of up to 20 soil/sludge samples, to be relinquished to EPA DESA Personnel to ship to Accutest lab or the CLP laboratory assigned. KEMRON to provide one (1) geologist/field sampler and one (1) task manager/sample management officer for the soil boring activities. The soil boring activities are anticipated to require 2-3 field days. Drilling/ Geoprobe® services are anticipated to be sub-contracted, a draft Request For Proposal (RFP) document should be forwarded to OSC for review prior to sending out to vendors. The Draft RFP to be provided to the OSC two weeks prior to mobilization. OSC must be informed of and approve any variance to the UFP-QAPP requirements at the time of the activity. OSC will be on-site during the soil boring activities. All activities are to be performed in accordance with U.S. EPA and NJDEP SRP guidance. KEMRON to perform logging of soils and screening of soils with a PID, during soil sample collection;
- 6) Prior to mobilization for the Geoprobe® activities, contact the OSC to discuss site logistics and to determine if a meeting is required to discuss task assignments;
- 7) Photo-document site operations including photos of each core obtained highlighting any color changes/stratigraphy observed and provide photos with captions to OSC less than 5 business days following completion of field event;
- 8) Provide report including all sampling results, soil boring logs, soil field screening results, and private Mark-Out below grade utility location map; and,
- 9) Provide chronology of events to be provided to OSC less than 2 weeks after field activities have been completed.

Equipment Requirements:

One (1) full size vehicle

Geoprobe® Model 54LT

Multi-Rae PID

Safety Cones, caution tape, safety flags and

Additional items required for oversight, sampling & sample management.

ERT

- 1) Create an Uniform Federal Policy for Quality Assurance Project Plan (UFP-QAPP) for the advancement of at least SIX (6) DPT soil/sludge borings and collection of up to twenty (20) soil/sludge samples for the list of parameters specified below. The collection method for samples undergoing VOC analysis is the Encore® soil sample device. Sample Reporting Limits (RLs) for the TCL VOC, TCL SVOC and TAL metals as per the CLP SOW or DESA lab methods (if utilized). Provide data validation following receipt of full data packages. This UFP-QAPP needs to be reviewed by DESA personnel already involved with the project.

It is recommended that samples for the following analyses listed be submitted to Accutest, MA (sole source justification):

- B3328FINGHR GC Fingerprint, Alkanes and TPH by GC/FID
 - B5739ALKPAH PAHs & Alkylated PAHs by GC/MS/SIM
 - XCRA Hexavalent Chromium SW846 3060A/NJDEP 7196A
 - METDIG Metals Digestion
 - %SOL Percent Solids SM 2540B Mod
- 2) Deliverables from Lab to include all raw data (chromatograms, quantitation reports, histograms, instrument print-outs, etc.), a narrative, and forensic chromatographs and quantitation reports of best matches to known reference materials (e.g., mineral spirits, light naphtha, kerosene, diesel, gasoline, etc.)

The routine parameters listed below will be submitted to the DESA or CLP lab via an Analytical Request Form to the RSCC. Standard data deliverables are expected.

- TCL VOAs + 10 by SW-846 8260B
- TCL SVOAs + 20 by SW-846 8270D
- TAL Metals + Ti + Hg by SW-846 6020/7471

UFP-QAPP to be provided to OSC by 2 weeks after TDD acceptance.

Proposed Riverside Basement Forensic Sampling

<p>Building #7 Basement Opening-smaller opening on the Southeast side of the building. Located towards the middle of the building. Sludge is piled up close to floor surface.</p>		<p>Date Taken: 2/5/2012 Security Level: Public Category: Site Photo Latitude: Longitude:</p>	<p>Sampling:</p> <p>One (1) DP undisturbed core – assume 8'-10' length – analytes listed below</p> 
<p>Building #7 Basement Opening-smaller opening on the Southeast side of the building. Located towards the middle of the building. Sludge is piled up close to floor surface</p>		<p>Date Taken: 2/14/2012 Security Level: Public Category: Site Photo Latitude: 40.7707197222222 Longitude: -74.1689497222222</p>	<p>Sampling:</p> <p>One (1) DP undisturbed core – assume 8'-10' length – analytes listed below</p> 

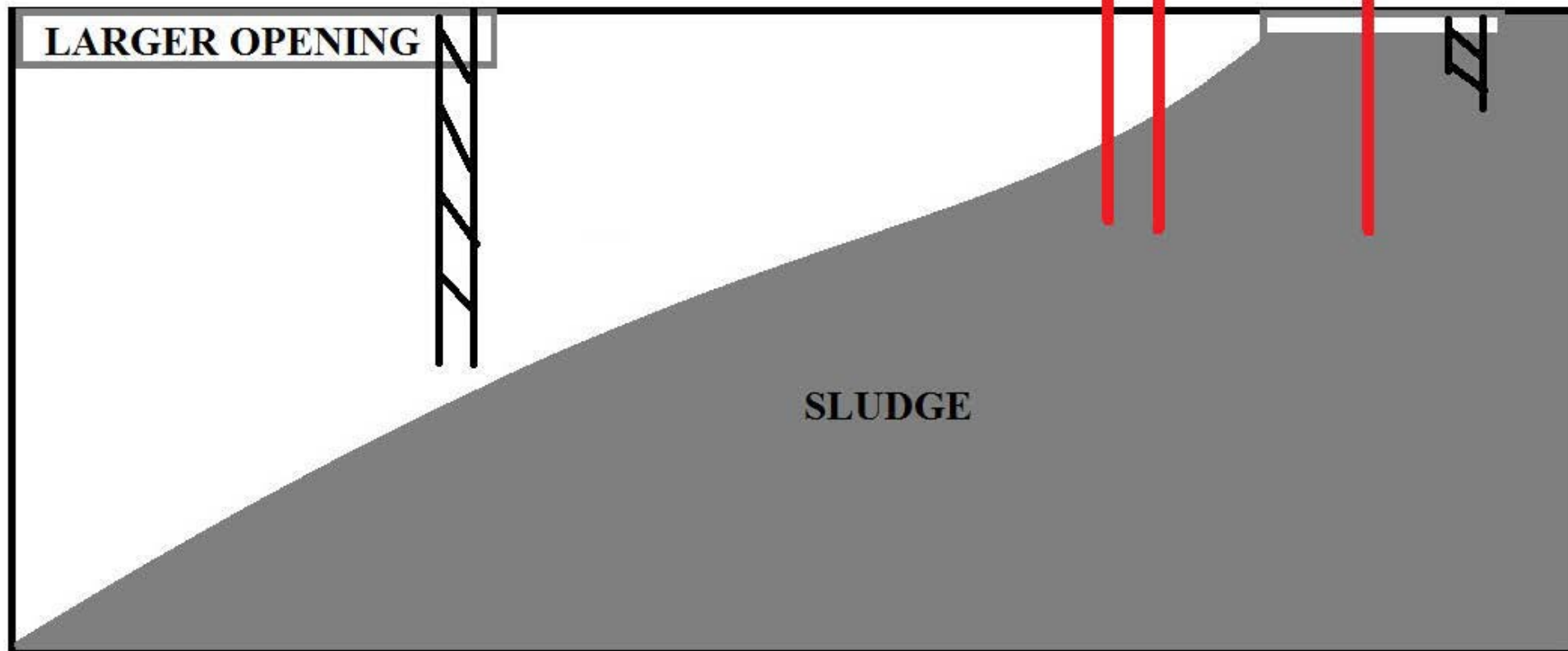
DPT cores and samples (6 to 10) obtained by subcontractor. Samples will be hand-delivered to Accutest Dayton, NJ lab (COC lab) – Accutest NJ will ship to Accutest MA lab who will analyze samples – analysis would be for:

1. Hydrocarbon Characterization by Qualitative GC/FID – Fingerprinting by EPA 8015 modified and/or ASTM D3328-06(suspect Stoddard Solvent, light naphtha, toluene, mineral spirits)
2. PAHs and Alkylated PAHs by GC/MS/SIM EPA 8270 modified and/or ASTM D 5739-06
3. TCL VOAs + 10 by SW-846 8260B
4. TCL SVOAs + 20 by SW-846 8270D
5. TAL Metals + Ti + Hg by SW-846 6020/7471
6. Cr(VI) by SW846 3060A/7196A

PROFILE OF VAULT CLOSEST TO PASSAIC RIVER

SUGGESTED CORE LOCATIONS

LARGER OPENING



PASSAIC RIVER

